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FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. APPLICATION NO. FILING DATE 08/08/2001 930.334USW1 2899 09/924,863 Huima Antti **EXAMINER** 32294 7590 03/16/2005 SQUIRE, SANDERS & DEMPSEY L.L.P. GESESSE, TILAHUN 14TH FLOOR ART UNIT PAPER NUMBER 8000 TOWERS CRESCENT

2684

DATE MAILED: 03/16/2005

Please find below and/or attached an Office communication concerning this application or proceeding.



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	Application No.	Applicant(s)
	09/924,863	ANTTI, HUIMA
Office Action Summary	Examiner	Art Unit
	Tilahun B Gesessse	2684
The MAILING DATE of this communication Period for Reply	appears on the cover sheet wit	h the correspondence address
A SHORTENED STATUTORY PERIOD FOR RETHE MAILING DATE OF THIS COMMUNICATIO - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a - If NO period for reply is specified above, the maximum statutory per - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the material patent term adjustment. See 37 CFR 1.704(b).	N. R 1.136(a). In no event, however, may a re reply within the statutory minimum of thirty fiod will apply and will expire SIX (6) MONT atute, cause the application to become ABA	ply be timely filed (30) days will be considered timely. THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on 22		
·=	his action is non-final.	
3) Since this application is in condition for allow closed in accordance with the practice under the condition of the cond	·	•
Disposition of Claims		
4) ☑ Claim(s) 1-68 is/are pending in the application 4a) Of the above claim(s) 1-32 is/are withdrases 5) ☐ Claim(s) is/are allowed. 6) ☑ Claim(s) 33-42 and 58-68 is/are rejected. 7) ☑ Claim(s) 43-57 is/are objected to. 8) ☐ Claim(s) are subject to restriction and	awn from consideration.	
Application Papers		
9)☐ The specification is objected to by the Exam	iner.	
10) The drawing(s) filed on is/are: a) a	accepted or b) objected to b	y the Examiner.
Applicant may not request that any objection to t	the drawing(s) be held in abeyand	e. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the corn 11) The oath or declaration is objected to by the		
Priority under 35 U.S.C. § 119		·
12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the p application from the International Bure * See the attached detailed Office action for a least	ents have been received. ents have been received in Ap riority documents have been r eau (PCT Rule 17.2(a)).	oplication No received in this National Stage
Attachment(s)		
1) Notice of References Cited (PTO-892)		ımmary (PTO-413)
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/Paper No(s)/Mail Date 	_	/Mail Date formal Patent Application (PTO-152)
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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. Request for continued examination (RCE) filed 12/22/04 is acknowledged, in which claim 1-32 canceled and claims 33-68 are pending.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 33-42, 58-68 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yahagi (US 5642 401) in view of Murto (US 5,991,407).

As to claims 33,62-63 Yahagi discloses a method of securing communication (fig.1) between a first party (mobile station 1) and a second party in a telecommunication network (network) comprising: defining a criteria for selecting one of a plurality of different security methods (column 2, lines 7-24), the plurality of security methods each at least two different security method having at least one message in common (column 3, lines 1-28),

Yahagi discloses selecting one of the plurality of different security methods in accordance with said defined criteria and performing said security method the steps as taught in , column 2 lines 7-13 and column 3 lines 1-28).

Yahagi differs in teaching a plurality of messages selected from a set of messages types. However, Murto discloses plurality of messages selected from a set of message types (plurality of IMSI and Ki stored are selected for securing the communication (see figures 6-7 and see column 6, line 61-column 8, line 12). It would have been obvious to an artisan of ordinary skill in the art at the time of the invention was made to select a message from plurality of messages stored in the database to secure communication between a mobile terminal and wireless communication network, as evidenced by Murto, in order to identify the user and secure the communication from intruders by that minimize cost of air time of the system or service provider.

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At to claim 34, Yahagi discloses the criteria are to select the security method is selected at random (column 3 lines 58-column 4, line 4). As to claim 35, Yahagi discloses processing capability of the first and second party (mobile and BS/MSC/DB, column 2 lines 55-68 and figure 6). As to claim 36, Yahagi inherently discloses select the security based on the amount of time since last security method was perfumed. As to claim 37, Yahagi discloses security method is based on the function provided by the security method (authentication calculation result 'function'' (figure 3). As to claim 38, Yahagi discloses the plurality of security methods comprising at least one authentication method or at least one rekeying method (figure 3). As to claim 39, Yahagi inherently discloses at least one authentication method includes a key exchange to create a shared secret.

As to claims 40 and 42,58-59 Yahagi discloses a rekeying method is performed after an authentication method (column 3, lines 60-67). As to claim 41 and 43,57,

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Yahagi discloses the set of messages includes at least one random number message (column 3, lines 60-67 and figure 1). As to claim 49, Yahagi discloses the security method is a first rekeying method and comprising first and second random number message (using random number at the mobile station, authentication calculation and using random number at the data base, authentication result, (figure 3 and it's disclosure). As to claim 54, Yahagi discloses one message being from the first party and the other message being from the second party (figure 3, and it's disclosure).

As to claim 55, Yahagi inherently discloses the encoding message is used for transfer information as to the identity of at least one of the first and second parties to the other of the first and second parties. As to claim 56, Yahagi inherently discloses at least one of said first and second parties is arranged to communicate with a trusted third party and is arranged to receive messages from and/or send messages to that trusted third party. As to claim 60-61, Yahagi discloses at least on of the first and second stations comprise a mobile station and a base station (figure 1).

Regarding claims 64-68, Yahagi discloses a method of securing communication (fig.1) between a first party (mobile station 1) and a second party in a telecommunication network (network) comprising: defining a criteria for selecting one of a plurality of different security methods (column 2, lines 7-24), the plurality of security methods each at least two different security method having at least one message in common (column 3, lines 1-28),

Yahagi discloses selecting one of the plurality of different security methods in accordance with said defined criteria and performing said security method the steps as taught in , column 2 lines 7-13 and column 3 lines 1-28).

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Allowable Subject Matter

4. Claims 43-57 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter:

the prior art does not teach the set of messages includes at least one of the following

message types: at least one tandom number message', at least one hash function

message', at least one signature function message; at least one parameter for use with

a given function message; at least one security parameter message; at least one key for

a given function message; at least one encoded message; at least one message to and/or from at least one third party; and at least one authentication response message.

Response to Arguments

5. Applicant's arguments with respect to claims 33-42,57-63 have been considered but are most in view of the new ground(s) of rejection.

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Barney et al (EP 602,335) discloses a securing between two parties and method of selecting and a common key generation and ciphering algorithm, see abstract.

Bostley, III et al (US 6,201,871) discloses method of security of the A-keys I a wireless communication system. The method of securing communication effectively prevents a human access to A-keys and eliminates cloning. (See abstract).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tilahun B Gesesse whose telephone number is 703-308-5873. The examiner can normally be reached on flex.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nay Maung can be reached on 703-308-7745. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Tilahun Gesesse Primary Examiner US Patent and Trademark Office Tel. 703-308-5873 February 28, 2005

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